Research - Security Research

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Abstract

Security research related to API-OSS.

Security Research

Overview

Security research related to API-OSS.

Key Papers

Title	Author	Year	Relevance
“Trusted Platform Module”	TCG	2016	Hardware attestation
“OWASP API Security Top 10”	OWASP	2023	API security
“Zero Trust Architecture”	NIST	2020	Network security
“Hash Chain Integrity”	Haber & Stornetta	1991	Audit logging

Security Concepts

TPM Attestation

```yaml
usage: Platform integrity verification
standards:
  - TPM 2.0 (ISO 11889)
  - PC Client Platform TPM Profile
  - TCG TPM 2.0 Library Specification
```

Zero Trust

```yaml
principles:
  - Verify every request
  - Least privilege access
  - Assume breach
  - Micro-segmentation

implementation:
  - mTLS between all components
```

```
  - Every request authenticated
  - Fine-grained RBAC
  - Continuous monitoring
```

Hash Chain

```
usage: Immutable audit log
properties:
  - Tamper-evident
  - Verifiable
  - Append-only
algorithm: SHA-256 hash chain
```

Next

- Performance Research

See Also

Related research, architecture, and whitepaper documentation.

- Research Overview
- Architecture Overview
- Whitepapers
- Performance Research